

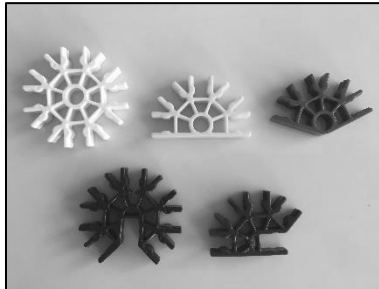
# Destination Science

## Island Robot Build Directions

Begin by pouring all the bagged pieces into a large Ziplock baggie. Before anything gets thrown away, make sure those small plastic bags that the pieces come in are empty. Review the names of the pieces and how the pieces connect before you start building!

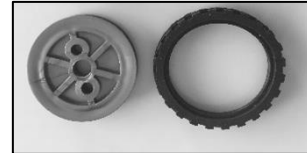


Rods



Snowflakes

Tire, Wheel, Gear, Black Dome

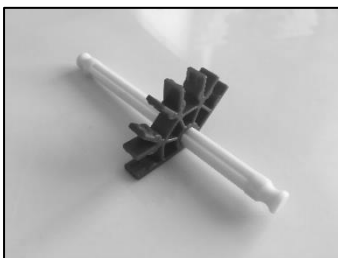


Blue Spacer,  
Gray Thick  
Spacer,  
Black Clip,  
Tan Nose  
Clip

### Connecting Pieces

Rods and Snowflakes can attach to each other in three different ways, and we have special names for them at Destination Science! The three ways they can connect are...

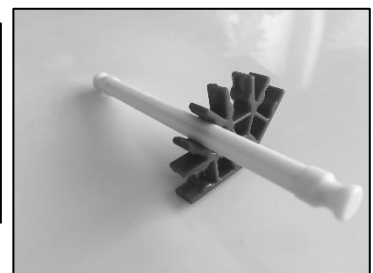
The Slide...



The Clip...



and The Bite.



# Destination Science

## Monday - Wheels and Motor

### Monday parts:

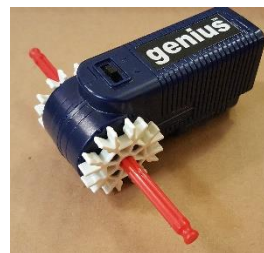
- 2 grey wheels
- 2 black tires
- 2 black wheels
- 3 yellow rods
- 1 red rod
- 3 blue spacers
- 9 grey spacers
- 2 white snowflakes
- 2 yellow snowflakes
- 2 black clips
- 2 tan clips
- 1 blue motor



First, make two wheels. Wrap the black tires around the grey wheels. You're done.



Then take the motor and slide the red rod through the hole in the gear box. Don't twist the rod or you will break the gearbox. Set the motor on a flat surface.



Slide a white snowflake onto the red rod through the snowflake's center opening and push the snowflake up against the motor. The motor has little nubs on the side that fit around the snowflake's hole. Repeat on the other side. They should be **SNUG**, and you may need to push them together.



Now we put on the spacers. Slide three grey spacers on one side, and two grey spacers + two blue spacers on the other side. Either side is fine.

Bite a tan clip onto each end of the red rod to secure the spacers. These tan clips don't need to line up with each other, but they should each be snug against the other pieces.



Take a wheel and find the **u-shaped groove**. Line it up with the tan clip's nose and push them together until you hear a click. We are done with this step.



# Destination Science

## Monday - Wheels and Motor

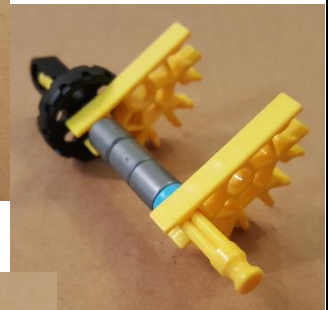
Next, we'll make the other set of wheels. Take a yellow rod and clip a black clip onto one of the ends (doesn't matter which). Then slide on one grey spacer and then a black wheel.



Bite the side opening of a yellow snowflake onto the yellow rod and slide it up next to the black wheel. The flat part of the yellow snowflake is now the "top."



Slide on three grey spacers and a blue spacer (in any order) next to the snowflake. Then bite on another yellow snowflake in the same position as the first one. These should be at the same angle.



Slide the other black wheel and another blue spacer onto the open end of the yellow rod, and then bite on a black clip.



We're done!

These are our two finished sets of wheels for today.



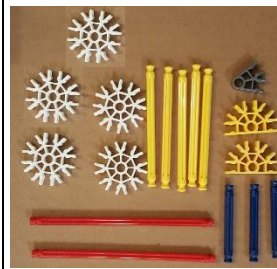
# Destination Science

## Tuesday - Chassis

Today's pieces:

- 5 white snowflakes
- 2 yellow snowflakes
- 1 grey snowflake
- 5 yellow rods
- 3 blue rods
- 2 red rods

+ plus finished wheels from yesterday



First, take the small wheel set and clip two yellow rods into the other side openings of the yellow snowflakes across from where you clipped them onto the rod yesterday.



Then, take the finished motor with attached wheels from yesterday and clip a yellow rod into the white snowflakes like shown. The yellow rod should be parallel to the motor's rectangular shape.



Next, clip two white snowflakes onto the other end of the yellow rod.



Finally, connect the wheel sets at the white snowflakes you just attached. The small wheels' yellow rods should go in the snowflake openings next to the opening where the motor's yellow rods are connected to form a steep triangle.

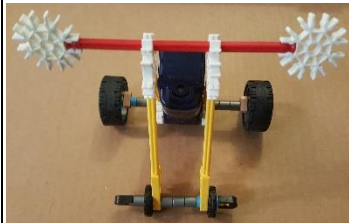


# Destination Science

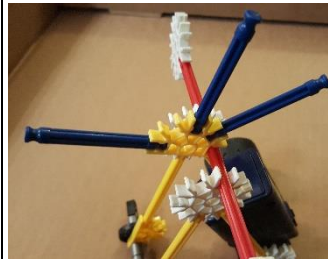
Bite a red rod into the top white snowflakes three openings away from the motor's yellow rods. Center the rod.



Clip two more white snowflakes onto the red rod's ends. Then bite on a yellow snowflake in the red rod's middle portion between the two snowflakes connecting the wheel sets.



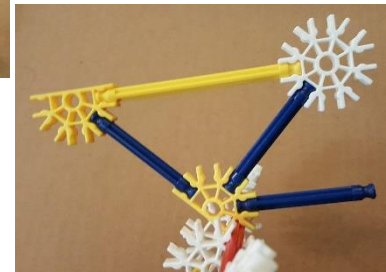
Clip three blue rods into the yellow snowflakes openings as shown: one on the side, and the other two next to the red rod.



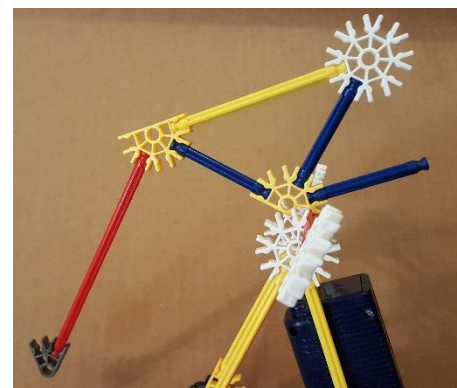
Take a yellow snowflake so the flat side is up. Clip the yellow snowflake to the farthest blue rod at the next-to-farthest-right opening. Clip a yellow rod into the side opening next to it. Clip the white snowflake to the open end of the second blue rod and the yellow rod.



Clip a grey snowflake onto a red rod. Clip the other end of the red rod into the top yellow snowflake's opening next to the side opening.



We are done for today!

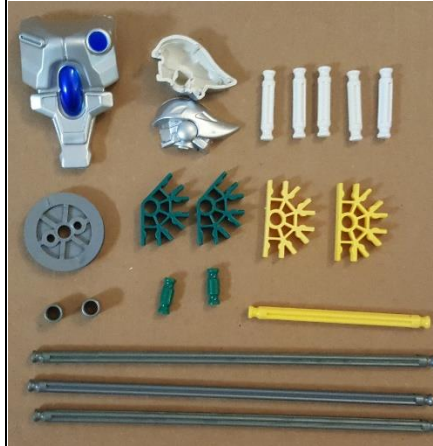


# Destination Science

## Wednesday - Attaching tools

Today's pieces:

- 1 silver helmet in two pieces
- 1 silver/blue armor
- 5 white rods
- 3 grey rods
- 2 green rods
- 1 yellow rod
- 2 grey spacers
- 2 green snowflakes
- 2 yellow snowflakes
- 1 grey wheel



Make the helmet. The helmet's two sides have matching nubs and holes for making one piece. **This part is tricky. You can do this the easy way or the hard way. You might do the hard way first because it doesn't look hard, trust us, there is an easier way.**



The hard way: stick the helmet pieces together first and then shove the white rod end into the hole. This takes a LOT of effort and can hurt small hands. If the two pieces are already together, pry them apart with the edge of a snowflake and do it the easy way instead.



**The EASY way: BARELY** join the two pieces but don't press them together. Leave space between them. Rest the piece on a flat surface. Insert a white rod's end into the hole between the two pieces. Push the two pieces together once the piece is inside.

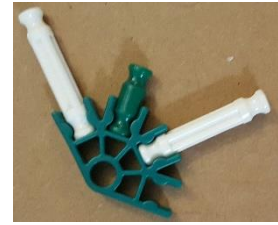
Clip the white rod into the top white snowflake two spaces away from the yellow rod. Attach the back of the blue/silver armor to the bottom blue rod.



# Destination Science

## Wednesday - Attaching tools

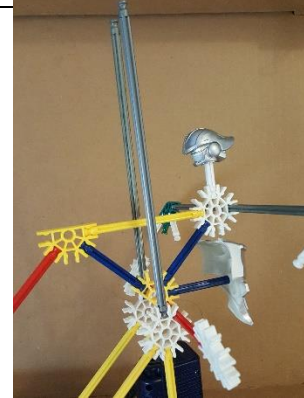
Bite a grey rod on the top white snowflake, one space below the helmet's rod. Make it even on both sides.



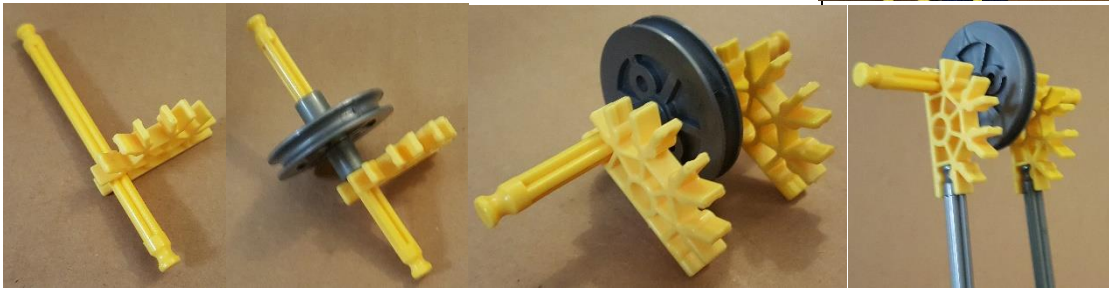
Take a green snowflake, a green rod, and two white rods. Make the piece on the right. Make another piece just like it and clip the open end of each one to the ends of the grey rod.



Clip two grey rods into the white snowflakes that join the wheel pairs, across from the motor's yellow rods.



Take a yellow rod and bite the side opening of a yellow snowflake onto one side. Then slide on a grey spacer, the grey wheel, and another grey spacer. Finally, bite a yellow snowflake after the grey spacer to make the two sides the same. The snowflakes need to be the same. Attach the snowflakes' side openings to the grey rods.



We can imagine this is Treasure robot Island this week. The children are coming and EG needs our miniature models of the rides that the island will show off during the grand opening next Month.

